



NOTES

- THE EXISTING CONTROL CIRCUITS FOR ELEVATOR TRANSFER TO EMERGENCY POWER MUST REMAIN IN OPERATION, WITH MINIMUM INTERRUPTION DURING CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO DISCONNECTING OR CONNECTING ANY CONTROL WIRING. CONTROL WIRING SHALL BE CONNECTED IN STAGES AS DESCRIBED ON THE FOLLOWING DRAWINGS:
DWG. E-97-SUBSTATION SS-41N & SS-41S-COMM. DIAG.
DWG. E-98-SS-75N & SS-75S
DWG. E-99-SS-75W & SS-75E
- THE ELEVATOR AND FIRE PUMP AUTOMATIC TRANSFER SWITCHES WILL REPLACE EXIST. AUTOMATIC TRANSFER SWITCHES IN EXIST. SUBSTATIONS. THESE SWITCHES SHALL OPERATE THE SAME AS THE EXIST. SWITCHES THEY REPLACE.

I HEREBY CERTIFY THAT THIS IS A TRUE AND CORRECT COPY OF ONE OF THE CONTRACT DRAWINGS CONSTITUTING A PART OF CONTRACT NO. WTC-802.071 IN THE FORM IN WHICH SAID DRAWINGS EXISTED AT THE TIME THE SAID CONTRACT WAS EXECUTED BY THE PARTIES.

DATE 6/21/95 *Stephen A. Adam* SPEC. WRITER

DATE 6/15/95 *Peter K. Sweeney* ENGINEER OF DESIGN

LEGEND - THIS DRAWING ONLY

- AUXILIARY RELAY CONTROL
- AUXILIARY CONTACT N.C.
- AUXILIARY CONTACT N.O.
- 480 - 120 VOLT 1 ϕ CONTROL TRANSFORMER
- EXIST. INDICATING LIGHT
W - WHITE
G - GREEN
R - RED
- EXIST. CONTROL SWITCH S.P.S.T.
- EXIST. CONTROL SWITCH D.P.D.T.
- TERMINAL IN EXIST. TERM. CAB.
- TERMINAL IN A.T.S. TERM. CAB.
- DIGITAL INSTRUMENTATION PACKAGE LOCATED AT CRT. BKR. #CB-R1.
- TYPICAL WIRE DESIGNATIONS ARE SHOWN IN PARENTHESIS ON THIS DRAWING. FOR FULL WIRE DESIGNATION AT EACH SUBSTATION, SUBSTITUTE A.T.S. NUMBER FOR THE ASTERISK, *; FOR A.T.S. #6A, (+5) = (6A) (SEE SCHEDULE FOR A.T.S. NUMBERS)
- DEVICE - WIRE
- = DEVICE OR WIRE TO BE INSTALLED
- = EXISTING DEVICE OR WIRE TO REMAIN

ELEMENTARY DIAGRAM

(TYPICAL FOR 2 SUBSTATIONS ON SAME FLOOR EXCEPT AS NOTED)

DETAIL "A"

FRONT VIEW N.T.S.

PLAN - ELEV. TRANSFER SW. RM.

TYPICAL FOR ALL SUBSTATIONS

AUTOMATIC TRANSFER SWITCH SCHEDULE

ELECTRICALLY OPERATED, MECHANICALLY HELD
3 ϕ 600 VOLT (FOR OPERATION ON 480 V)

| LOCATION | NAMEPLATE ENGRAVING | SECOND LINE | ATS # | SIZE | | | ACCESS F = FRONT R = REAR |
|------------|---------------------|---------------|----------|-------|-------|-------|---------------------------------|
| | | | | 1200A | 1800A | 2000A | |
| ONE WTC | 41st FLOOR NORTH | SHUTTLE ELEV. | ATS-41NL | 8A | 1 | --- | F & R |
| | BANK ELEV. | ATS-41NR | 6A | 1 | --- | --- | F |
| | SHUTTLE ELEV. | ATS-41SL | 7A | 1 | --- | --- | F & R |
| | BANK ELEV. | ATS-41SR | 7A | 1 | --- | --- | F & R |
| 75th FLOOR | 41st FLOOR NORTH | SHUTTLE ELEV. | ATS-75NL | 14A | --- | --- | F & R |
| | BANK ELEV. | ATS-75NR | 12A | 1 | --- | --- | F |
| | SHUTTLE ELEV. | ATS-75SL | 13A | --- | --- | --- | F & R |
| | BANK ELEV. | ATS-75SR | 13A | --- | --- | --- | F & R |
| TWO WTC | 75th FLOOR WEST | SHUTTLE ELEV. | ATS-75WL | 14B | --- | --- | F & R |
| | BANK ELEV. | ATS-75WR | 12B | 1 | --- | --- | F & R |
| | SHUTTLE ELEV. | ATS-75EL | 15B | --- | --- | --- | F & R |
| | BANK ELEV. | ATS-75ER | 13B | --- | --- | --- | F & R |
| TOTAL | | | | 7 | 1 | 5 | |

ATS SHALL BE ASCO #940 OR APPROVED EQUAL

THE PORT AUTHORITY
OF NY & NJ

Peter K. Sweeney
ENGINEERING PROGRAM MANAGER
WORLD TRADE CENTER
Stephen A. Adam
SPECIAL WRITER

Engineering Department
Design Division
The World Trade Center
Electrical/HVAC
Upgrade Program

TOWER ONE AND TWO
LOW VOLTAGE
SUBSTATIONS
CONSTRUCTION AND
INSTALLATION
ELECTRICAL

AUTOMATIC TRANSFER SWITCH
SCHEDULE PLANS AND
ELEMENTARY DIAGRAM

No. Date Revision Approved

This drawing subject to conditions in contract. All inventions, ideas, designs and methods herein are reserved to Port Authority and may not be used without its written consent.

LEAHY/
FISCHER
Designed by LEAHY
Drawn by
Checked by

Date 5-1-95 Scale AS NOTED

Contract Number WTC 802.071
Drawing Number E-96